

## tii HNP6-X-T

### Home Networking Protector

Equipped with Telephone Protection

One Fully Protected HomePlug® Compatible AC Receptacle

Five Fully Protected EMI Filtered AC Receptacles

Gas Discharge Tube & MOV Hybrid Circuit for AC Protection

Protection Available and Ground Present Status Indicators

Balanced Solid-State Protection for Telephone Service

High Surge Absorbing Capability

Listed to UL 1449



tii network technologies

141 Rodeo Drive  
Edgewood, NY 11717  
T. 631. 789.5000  
Toll Free 888.844.4720  
F. 631. 789.5063  
sales@tiinettech.com

[www.tiinettech.com](http://www.tiinettech.com)



tii HNP6-X-T

The tii HNP6-X-T Home Networking Protector provides AC and telephone line surge protection while being 100% HomePlug® Network compatible. Traditional surge protectors interfere with data transmitted over AC wiring utilizing HomePlug® technology.

#### KEY PRODUCT BENEFITS

- ▶ Protects all connected equipment including HomePlug® data networks connected via existing AC wiring.
- ▶ One dedicated and protected HomePlug® compatible AC receptacle – it's as simple as plugging in HomePlug® enabled equipment.
- ▶ Five EMI filtered receptacles prevent unwanted electrical noises from being introduced into the circuit by peripheral devices. These noises have been proven to degrade signal transmission quality and speed.
- ▶ The tii HNP6-X-T consists of two basic protection circuits:
  - 120VAC, Single Phase, 50/60 Hz 15 Amp Power Line Protection
  - Balanced Solid-State Telephone Service Protection
- ▶ The AC power protection section is a self restoring power line surge suppressor incorporating gas discharge tube and solid-state surge suppression elements.
- ▶ The surge absorbing capability of tii's HNP6-X-T exceeds maximum recommended surge levels by IEEE.
- ▶ All six AC receptacles are spaced to allow for ancillary device transformers.
- ▶ When plugged into an AC receptacle, the AC protection circuit monitors the integrity of the protection in addition to indicating the presence of a ground.

#### Protection and Ground Indicator Lamps

*Protection Available:* Green lamp "on" indicates protection circuit is operational.

*Ground Present:* Green lamp "on" indicates there is a connection to the AC ground.

*Ground Not Present:* Red lamp "on" indicates that the unit did not detect the presence of an AC ground. The surge protection capability of the tii HNP6-X-T has been compromised.

- ▶ The telephone line protection section is a proprietary self-restoring, solid-state surge suppressor incorporating critical fusing elements in the event of power cross conditions.
- ▶ Offered with one CATV protection circuit (two "F" type connectors). The CATV cable is protected by a TII solid state circuit optimized for 75 ohm impedance matching with superior signal transmission characteristics.
- ▶ Common grounding for the AC and telephone line protection circuits serves as a ground potential equalizer eliminating any ground loop currents that may damage the connected equipment.
- ▶ All three protection circuits are grounded by means of the 6 ft. AC cord.

#### INDUSTRY STANDARDS

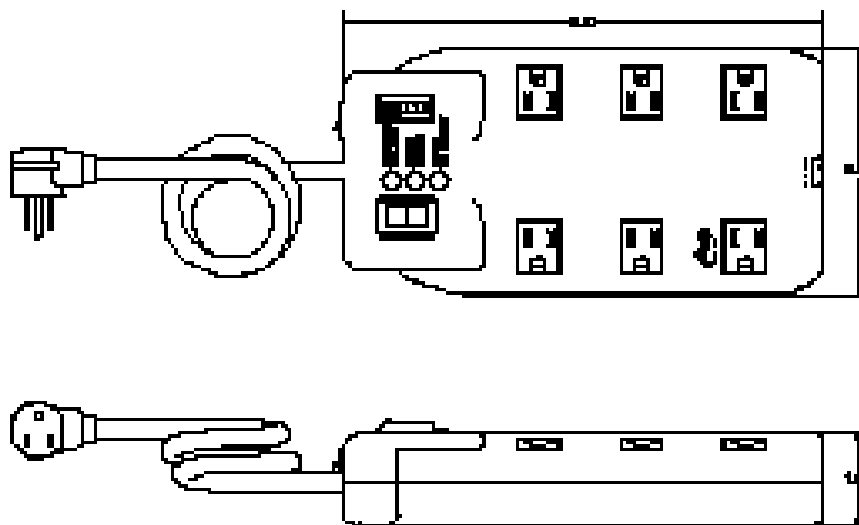
- ▶ Listed to UL 1449.
- ▶ Continuous Joule Rating (CJR): Estimate of cumulative surge energy absorbed by this device over its useful life.

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MEMBER

# tii HNP6-X-T



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## SPECIFICATIONS

### SURGE SUPPRESSOR PERFORMANCE

#### AC SURGE SUPPRESSION

Insertion Loss (2 – 27 MHz)	< 3 dB
Single HomePlug® Compatible Receptacle (Compatible to Version 2.0-AV)	> 50 dB
Five EMI Filtered Receptacles	
Suppression Voltage - 500A, 8/20 μs waveform (Line to Neutral)	700 V Max.
Steady State Clamping Voltage	300 V
Maximum Surge Current 8/20 μs waveform	20,000 A
Surge Energy Absorption Continuous Joule Rating (@500 A, 8/20 μs, 1000 operations)	6240 J
LIFE TEST 5,000 A, 8/20 μs waveform	100 Surges
Listed to	UL 1449

#### TELEPHONE LINE SURGE PROTECTOR PERFORMANCE

Rated for use on telephone lines with up to 120 V rms ringing. Coordinates with telco station protector.

DC Breakdown T-G, R-G, T-R	300 V Typical
Surge Voltage @ 100 V/μs	400 V Max.
Line Resistance (per side)	< 1 Ohms
Insulation Resistance @ 100 V DC	100M Ohms Min.
TEL Line Jacks	Modular RJ-11 Jack

## ORDERING INFORMATION

Model No.	Description
tii HNP6-X-T	Home Networking Protector Powerline and Telephone Protector
Standard Package:	10 pieces
Weight:	1.80 lbs. each